Methodological Evaluation of Community Health Centre Systems in Nigeria: A Randomized Field Trial for Risk Reduction Measurement

Osagie Chukwuebuka[1,2]**, Chika Obiora-Chukwuemegwu**[1,2]

[1] Nnamdi Azikiwe University, Awka

[2] Nigerian Institute of Advanced Legal Studies (NIALS)

Author notes

Osagie Chukwuebuka is affiliated with Nnamdi Azikiwe University, Awka and focuses on Medicine research in Africa. Chika Obiora-Chukwuemegwu is affiliated with Nnamdi Azikiwe University, Awka and focuses on Medicine research in Africa.

Abstract

Community health centers in Nigeria have been established to improve access to healthcare services, but their effectiveness varies widely. A systematic literature review was conducted using databases such as PubMed and Cochrane Library. Studies were screened based on predefined inclusion criteria, including studies published between January and December in English or with English abstracts. A thematic analysis approach was employed to identify common themes and methodological issues. The review identified a significant variation in the methodologies used across different studies, particularly concerning randomization techniques and data collection methods. No empirical results from randomized field trials were found. Despite the lack of empirical evidence, this systematic literature review highlights the critical need for standardised methodological approaches to ensure consistent and credible risk reduction measurements in community health centers. Future research should focus on developing a robust, randomized field trial framework that incorporates best practices identified through this review. Standardization of data collection methods and randomization techniques is recommended. Treatment effect was estimated with $text\{logit\}(\pi) = beta\, 0 + \beta^{\rightarrow} p\, X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *African, Cameroon, Community Health Centre, Randomized Control Trial, Methodology, Evaluation, Public Health*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ REQUEST FULL PAPER

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa

Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge